



RCA-27 DETECTOR, AMPLIFIER

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Heater		Coated Uni-potential Cathode	
Voltage	2.5	a-c or d-c volts	
Current	1.75	amp.	
Direct Interelectrode Capacitances:			
Grid to Plate	3.3	μuf	
Grid to Cathode	3.1	μuf	
Plate to Cathode	2.3	μuf	
Maximum Overall Length	(3)	4-1/4"	
Maximum Diameter		1-9/16"	
Bulb		ST-12	
Base	(2) (4)	Medium 5-Pin	
Pin 1-Heater		Pin 4-Cathode	
Pin 2-Plate	(1) (5)	Pin 5-Heater	
Pin 3-Grid			

BOTTOM VIEW AMPLIFIER (Class A)

Operating Conditions and Characteristics:					
Heater *	2.5	2.5	2.5	2.5	volts
Plate	90	135	180	250	275 max. volts
Grid	-6	-9	-13.5	-21	volts
Amp. Fact.	9	9	9	9	
Plate Res.	11000	9000	9000	9250	ohms
Mut. Cond.	820	1000	1000	975	μmhos
Plate Cur.	2.7	4.5	5.0	5.2	ma.

Grid-coupling resistor, if used, should not exceed 1.0 megohm.

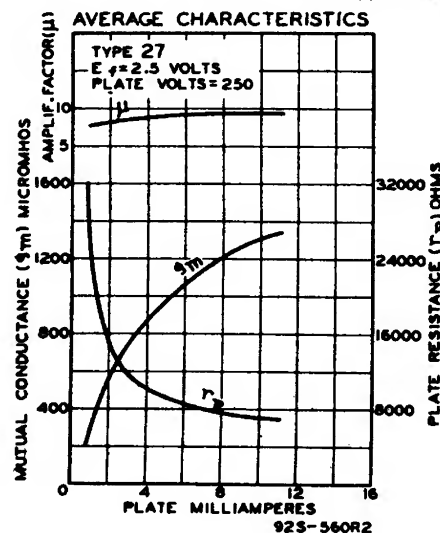
DETECTOR

Typical Operation:		Biased	Grid-Leak
Heater *	2.5	2.5	2.5
Plate	250	275 max.	45
Grid	-30*	-33* max.	Return to Cathode
Plate Cur.°	Adjusted to 0.2 ma. with no input signal		-
Grid Leak	-	-	1 to 5 megohms
Grid Condenser	-	-	0.00025 μf

* Max-Signal d-c plate current should be limited to 5.0 ma.

* Recommended practice is to connect the cathode directly to a mid-tap on the heater winding. If this practice is not followed, the potential difference between heater and cathode should be kept as low as possible.

Approximate.



JULY 1, 1935

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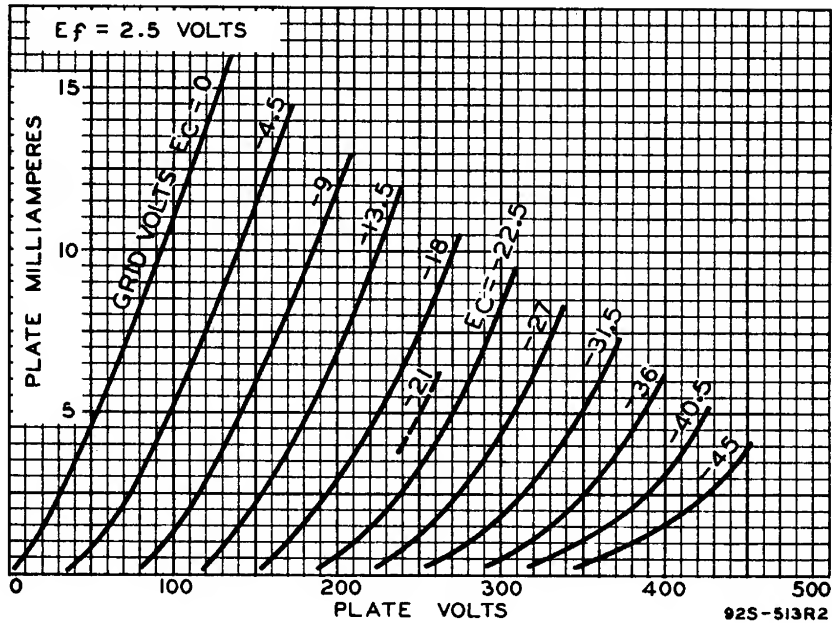
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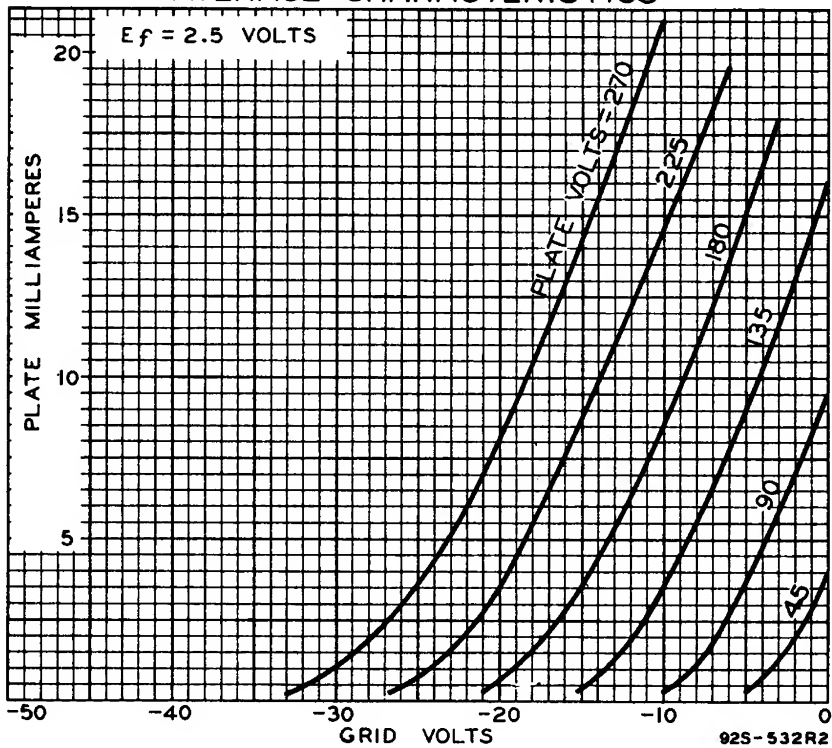


RCA-27

AVERAGE PLATE CHARACTERISTICS



AVERAGE CHARACTERISTICS



AUG. 30, 1935

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